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<110> KYOWA HAKKO KOGYO CO., LTD.

<120> Process for the antibody composition using RNA which inhibits a function of alpha 1,6-fucosyltransferase

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<140> 10/575,096

<141> 2006-04-10

<150> PCT/JP04/15316

<151> 2004-10-08

<150> P2003-350167

<151> 2003-10-09

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<170> PatentIn Ver. 2.1

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305	310	315	320
Gly Asp Pro Ala Val Trp Trp Val Ser Gln Phe Val Lys Tyr Leu Ile			
325	330	335	
Arg Pro Gln Pro Trp Leu Glu Lys Glu Ile Glu Glu Ala Thr Lys Lys			
340	345	350	
Leu Gly Phe Lys His Pro Val Ile Gly Val His Val Arg Arg Thr Asp			
355	360	365	
Lys Val Gly Thr Glu Ala Ala Phe His Pro Ile Glu Glu Tyr Met Val			
370	375	380	
His Val Glu Glu His Phe Gln Leu Leu Ala Arg Arg Met Gln Val Asp			
385	390	395	400
Lys Lys Arg Val Tyr Leu Ala Thr Asp Asp Pro Ser Leu Leu Lys Glu			
405	410	415	
Ala Lys Thr Lys Tyr Pro Asn Tyr Glu Phe Ile Ser Asp Asn Ser Ile			
420	425	430	
Ser Trp Ser Ala Gly Leu His Asn Arg Tyr Thr Glu Asn Ser Leu Arg			
435	440	445	
Gly Val Ile Leu Asp Ile His Phe Leu Ser Gln Ala Asp Phe Leu Val			
450	455	460	
Cys Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr Glu Ile Met Gln			

465	470	475	seq list.txt	480											
Thr	Leu	His	Pro	Asp	Ala	Ser	Ala	Asn	Phe	His	Ser	Leu	Asp	Asp	Ile
485															495
Tyr	Tyr	Phe	Gly	Gly	Gln	Asn	Ala	His	Asn	Gln	Ile	Ala	Ile	Tyr	Ala
500															510
His	Gln	Pro	Arg	Thr	Ala	Asp	Glu	Ile	Pro	Met	Glu	Pro	Gly	Asp	Ile
515															525
Ile	Gly	Val	Ala	Gly	Asn	His	Trp	Asp	Gly	Tyr	Ser	Lys	Gly	Val	Asn
530															540
Arg	Lys	Leu	Gly	Arg	Thr	Gly	Leu	Tyr	Pro	Ser	Tyr	Lys	Val	Arg	Glu
545															550
Lys	Ile	Glu	Thr	Val	Lys	Tyr	Pro	Thr	Tyr	Pro	Glu	Ala	Glu	Lys	
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<210> 9  
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<210> 10  
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<212> RNA  
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<220>  
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<210> 11  
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<220>  
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<400> 11  
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<210> 12  
<211> 35  
<212> RNA  
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<220>  
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<400> 12  
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<210> 13  
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<212> RNA  
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<220>  
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<400> 13  
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seq list.txt

<210> 14  
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<212> RNA  
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<220>  
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<400> 14  
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<210> 15  
<211> 36  
<212> RNA  
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<220>  
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<400> 15  
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<210> 16  
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<212> RNA  
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<220>  
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<400> 16  
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<210> 17  
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<212> RNA  
<213> Artificial Sequence

<220>  
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<400> 17  
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<210> 18  
<211> 35  
<212> RNA  
<213> Artificial Sequence

<220>  
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<400> 18  
uauggcaccc agcgaacacu caucuuggaa ucuca 35

<210> 19  
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<400> 19  
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seq list.txt

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31

<210> 21  
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<400> 21  
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33

<210> 22  
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<400> 22  
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35

<210> 23  
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<220>  
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<400> 23  
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32

<210> 24  
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<212> RNA  
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<220>  
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<400> 24  
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32

<210> 25  
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<400> 25  
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32

<210> 26  
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<400> 26  
ucaucccagg ucugucgggu ugcuuauagaa auca

34

seq list.txt

<210> 27  
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<220>  
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<400> 27  
ucauccccagg ucugucgagu ugcuuauagaa auua 34

<210> 28  
<211> 36  
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<220>  
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<400> 28  
caucuacuau uuuggaggcc aaaaugccc caauca 36

<210> 29  
<211> 36  
<212> RNA  
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<220>  
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<400> 29  
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<210> 30  
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<212> RNA  
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<220>  
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<400> 30  
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<210> 31  
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<220>  
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<400> 31  
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<210> 32  
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<220>  
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<210> 33  
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<220>

seq list.txt

<223> Description of Artificial Sequence: Synthetic DNA

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<220>  
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<400> 34  
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<210> 35  
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<212> PRT  
<213> Homo sapiens  
<220>

<400> 35  
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Pro Cys

<210> 36  
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<212> DNA  
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<220>  
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<400> 36  
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<210> 37  
<211> 22  
<212> DNA  
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<220>  
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<400> 37  
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<210> 38  
<211> 24  
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<220>  
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<400> 38  
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<210> 39  
<211> 24  
<212> DNA  
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<220>  
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<400> 39  
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<210> 40  
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seq list.txt

<212> DNA  
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<400> 40  
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<210> 41  
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<220>

<223> Description of Artificial Sequence: Synthetic DNA

<400> 41  
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<210> 42  
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<400> 42  
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cagccattcg gtac 74

<210> 43  
<211> 74  
<212> DNA  
<213> Artificial Sequence

<220>  
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<400> 43  
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cagccattcg agct 74

<210> 44  
<211> 74  
<212> DNA  
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<220>  
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<400> 44  
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gttcgctggg gtac 74

<210> 45  
<211> 74  
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<220>  
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<400> 45  
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gttcgctggg agct 74

<210> 46

seq list.txt

<211> 32  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 46  
ggcagctgcg ccagggtttt cccagtacg ac 32

<210> 47  
<211> 44  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 47  
cccagctgaa aaaaggtacc ctatgagctc ggggttggtt tttg 44

<210> 48  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 48  
taaatagaat tcggcatcat gtggcagctg ct 32

<210> 49  
<211> 34  
<212> DNA  
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<220>  
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<400> 49  
aataaaggat cctggggta tttgtttga gggt 34

<210> 50  
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<220>  
<221> CDS  
<222> (13)..(774)

<400> 50  
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1 5 10  
cta gtt tca gct ggc atg cgg act gaa gat ctc cca aag gct gtg gtg 96  
Leu Val Ser Ala Gly Met Arg Thr Glu Asp Leu Pro Lys Ala Val Val  
15 20 25  
ttc ctg gag cct caa tgg tac agg gtg ctc gag aag gac agt gtg act 144  
Phe Leu Glu Pro Gln Trp Tyr Arg Val Leu Glu Lys Asp Ser Val Thr  
30 35 40  
ctg aag tgc cag gga gcc tac tcc cct gag gac aat tcc aca cag tgg 192  
Leu Lys Cys Gln Gly Ala Tyr Ser Pro Glu Asp Asn Ser Thr Gln Trp  
45 50 55 60  
ttt cac aat gag agc ctc atc tca agc cag gcc tcg agc tac ttc att 240  
Phe His Asn Glu Ser Leu Ile Ser Ser Gln Ala Ser Ser Tyr Phe Ile  
65 70 75  
gac gct gcc aca gtc gac gac agt gga gag tac agg tgc cag aca aac 288  
Asp Ala Ala Thr Val Asp Asp Ser Gly Glu Tyr Arg Cys Gln Thr Asn  
80 85 90  
ctc tcc acc ctc agt gac ccc gtg cag cta gaa gtc cat atc ggc tgg 336  
Leu Ser Thr Leu Ser Asp Pro Val Gln Leu Glu Val His Ile Gly Trp  
95 100 105  
ctg ttg ctc cag gcc cct cgg tgg gtg ttc aag gag gaa gac cct att 384

seq list.txt

Leu	Leu	Leu	Gln	Ala	Pro	Arg	Trp	Val	Phe	Lys	Glu	Glu	Asp	Pro	Ile
110			115							120					
cac	ctg	agg	tgt	cac	agc	tgg	aag	aac	act	gct	ctg	cat	aag	gtc	aca
His	Leu	Arg	Cys	His	Ser	Trp	Lys	Asn	Thr	Ala	Leu	His	Lys	Val	Thr
125			130							135					140
tat	tta	cag	aat	ggc	aaa	ggc	agg	aag	tat	ttt	cat	cat	aat	tct	gac
Tyr	Leu	Gln	Asn	Gly	Lys	Gly	Arg	Lys	Tyr	Phe	His	His	Asn	Ser	Asp
										145					155
ttc	tac	att	cca	aaa	gcc	aca	ctc	aaa	gac	agc	ggc	tcc	tac	tcc	tgc
Phe	Tyr	Ile	Pro	Lys	Ala	Thr	Leu	Lys	Asp	Ser	Gly	Ser	Tyr	Phe	Cys
										160					170
agg	ggg	ctt	ttt	ggg	agt	aaa	aat	gtg	tct	tca	gag	act	gtg	aac	atc
Arg	Gly	Leu	Phe	Gly	Ser	Lys	Asn	Val	Ser	Ser	Glu	Thr	Val	Asn	Ile
										175					185
acc	atc	act	caa	ggt	ttg	gca	gtg	tca	acc	atc	tca	tca	ttc	ttt	cca
Thr	Ile	Thr	Gln	Gly	Leu	Ala	Val	Ser	Thr	Ile	Ser	Ser	Phe	Phe	Pro
										190					200
cct	ggg	tac	caa	gtc	tct	tcc	tgc	ttg	gtg	atg	gta	ctc	ctt	ttt	gca
Pro	Gly	Tyr	Gln	Val	Ser	Phe	Cys	Leu	Val	Met	Val	Leu	Leu	Phe	Ala
										205					220
gtg	gac	aca	gga	cta	tat	ttc	tct	gtg	aag	aca	aac	att	cga	agc	tca
Val	Asp	Thr	Gly	Leu	Tyr	Phe	Ser	Val	Lys	Thr	Asn	Ile	Arg	Ser	Ser
										225					235
aca	aga	gac	tgg	aag	gac	cat	aaa	ttt	aaa	tgg	aga	aag	gac	cct	caa
Thr	Arg	Asp	Trp	Lys	Asp	His	Lys	Phe	Lys	Trp	Arg	Lys	Asp	Pro	Gln
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gac	aaa	tga	ccc	cag	gat	cc									788
Asp	Lys														

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<213> Homo sapiens

<400> 51

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Gly	Met	Arg	Thr	Glu	Asp	Leu	Pro	Lys	Ala	Val	Val	Phe	Leu	Glu	Pro
								20					25		30
Gln	Trp	Tyr	Arg	Val	Leu	Glu	Lys	Asp	Ser	Val	Thr	Leu	Lys	Cys	Gln
								35					40		45
Gly	Ala	Tyr	Ser	Pro	Glu	Asp	Asn	Ser	Thr	Gln	Trp	Phe	His	Asn	Glu
								50					55		60
Ser	Leu	Ile	Ser	Ser	Gln	Ala	Ser	Ser	Tyr	Phe	Ile	Asp	Ala	Ala	Thr
								65					70		80
Val	Asp	Asp	Ser	Gly	Glu	Tyr	Arg	Cys	Gln	Thr	Asn	Leu	Ser	Thr	Leu
								85					90		95
Ser	Asp	Pro	Val	Gln	Leu	Glu	Val	His	Ile	Gly	Trp	Leu	Leu	Gln	
								100					105		110
Ala	Pro	Arg	Trp	Val	Phe	Lys	Glu	Glu	Asp	Pro	Ile	His	Leu	Arg	Cys
								115					120		125
His	Ser	Trp	Lys	Asn	Thr	Ala	Leu	His	Lys	Val	Thr	Tyr	Leu	Gln	Asn
								130					135		140
Gly	Lys	Gly	Arg	Lys	Tyr	Phe	His	His	Asn	Ser	Asp	Phe	Tyr	Ile	Pro
								145					150		160
Lys	Ala	Thr	Leu	Lys	Asp	Ser	Gly	Ser	Tyr	Phe	Cys	Arg	Gly	Leu	Phe
								165					170		175
Gly	Ser	Lys	Asn	Val	Ser	Ser	Glu	Thr	Val	Asn	Ile	Thr	Ile	Thr	Gln
								180					185		190
Gly	Leu	Ala	Val	Ser	Thr	Ile	Ser	Ser	Phe	Phe	Pro	Pro	Gly	Tyr	Gln
								195					200		205
Val	Ser	Phe	Cys	Leu	Val	Met	Val	Leu	Leu	Phe	Ala	Val	Asp	Thr	Gly
								210					215		220
Leu	Tyr	Phe	Ser	Val	Lys	Thr	Asn	Ile	Arg	Ser	Ser	Thr	Arg	Asp	Trp
								225					230		235
Lys	Asp	His	Lys	Phe	Lys	Trp	Arg	Lys	Asp	Pro	Gln	Asp	Lys		
								245					250		

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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 52

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seq list.txt  
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<213> *Homo sapiens*

<220>  
<221> CDS  
<222> (13)..(609)

<210> 54  
<211> 199  
<212> PRT  
<213> *Homo sapiens*

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Gly Met Arg Thr Glu Asp Leu Pro Lys Ala Val Val Phe Leu Glu Pro
      20          25          30
Gln Trp Tyr Arg Val Leu Glu Lys Asp Ser Val Thr Leu Lys Cys Gln
      35          40          45
Gly Ala Tyr Ser Pro Glu Asp Asn Ser Thr Gln Trp Phe His Asn Glu
      50          55          60
Ser Leu Ile Ser Ser Gln Ala Ser Ser Tyr Phe Ile Asp Ala Ala Thr
      65          70          75          80
Val Asp Asp Ser Gly Glu Tyr Arg Cys Gln Thr Asn Leu Ser Thr Leu
      85          90          95
Ser Asp Pro Val Gln Leu Glu Val His Ile Gly Trp Leu Leu Gln
      100         105         110
Ala Pro Arg Trp Val Phe Lys Glu Glu Asp Pro Ile His Leu Arg Cys
      115         120         125
His Ser Trp Lys Asn Thr Ala Leu His Lys Val Thr Tyr Leu Gln Asn
      130         135         140
Gly Lys Gly Arg Lys Tyr Phe His His Asn Ser Asp Phe Tyr Ile Pro

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